

Radio Remote Control solution for ZPMC STS cranes

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Customer challenge

As one of the world's leading manufacturers of heavy duty equipment and STS cranes, ZPMC needs to support its customers – primarily port operators – with the safe, reliable, and cost efficient operation of its STS cranes.

At automated container terminals in Tangier, Morocco, and Qingdao and Yangshen in China, STS cranes are operated remotely from a control room and personnel are not permitted in the vicinity of these cranes while they are in use. However, during commissioning and maintenance, operators are required to control cranes on-site, exposing them to potentially hazardous situations. As a consequence, operators need a remote control device.

ZPMC had to ensure terminal operators could conduct commissioning and maintenance while:

- minimizing costs and downtime;
- avoiding potential damage to cranes, ships, and port vehicles;
- ensuring personnel safety.

Cavotec solution

Cavotec engineered and supplied 29 Radio Remote Control (RRC) units that are installed on ZPMC cranes at these three terminals. The transmitter and receiver units enable operators to control cranes from a safe distance during commissioning and maintenance operations.

With an emergency stop function, one of the best battery capacities on the market, and a highly ergonomic design, Cavotec's RRC units have enabled safe commissioning and maintenance operations with the minimum of downtime.

Cavotec has extensive experience of crane applications, and provides a wide variety of RRC technologies and Human Operator Interface (HOI) systems for demanding applications worldwide.

Client

ZPMC

Application

STS cranes

Location, date

Port of Tangier, Morocco, 2017

Port of Qingdao, China, 2016

Port of Yangshan, China, 2016

Cavotec solution and scope of supply

29 MC-3300 RRC transmitters and MB2 receivers

Main benefits

- Considerable improvement in safety due to moving personnel away from hazardous areas
- Improved operator efficiency with accurate control and monitoring
- Reduced maintenance costs

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STS crane equipped with RRC at the Port of Qingdao, China



An operator tele-remote controls a STS crane at the Port of Yantshan, China



Radio Remote Control transmitter MC-3300



Receiver unit MB2



“ We’re really happy with the service and support we get from Cavotec. ”

Port Electrical Supervisor, Port Qingdao, China, Mr. Zhang.